

## 1 ABSTRACT

2 An image forming apparatus comprises a photosensitive drum, a pivot inserted through  
3 the center of the photosensitive drum for rotatably supporting the photosensitive drum, and a  
4 mass body disposed at the pivot in the photosensitive drum for changing a frequency of the pivot  
5 by changing the center of gravity and the shape of the pivot. The mass body is cylindrical in  
6 shape. Accordingly, noise and vibration of a developing device, generated due to friction  
7 between rollers and the photosensitive drum, is absorbed by the mass body. The natural  
8 frequency of the pivot is changed so that amplification of noise and vibration, due to resonance  
9 of a vibration frequency and the natural frequency, can be prevented. Therefore, exacerbation of  
10 the noise and the vibration can be prevented.

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